

PROBLEM/ISSUE ADDRESSED

Many SMEs in the European manufacturing industry have started using ROS. Engineers often know basic integration skills but require a more in-depth skillset to start making a true impact with reliable, secure & intelligent solutions. The ROS4DEV project will provide training content to fit the needs of engineers already developing ROS solutions in companies, start-ups & SMEs.

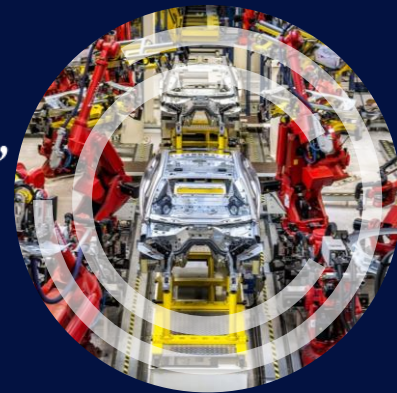
SOLUTION

ROS4DEV proposes flexible trainings on advanced topics of ROS solutions developments with frugal AI (low latency and low power processing), supervised learning, learning by demonstration, and cybersecurity software engineering methodologies (testing & deployment strategies). The trainees will complete an online program adapted to their needs and participate in a flexible hands-on training organised around real use cases that ROS4DEV will help them to solve.

WHY IT IS IMPORTANT FOR SOCIETY

According to ABI Research, nearly 55% of total commercial robots shipped in 2024, will have at least one ROS package installed, creating a large, installed base of ROS-enabled robots. AI and robotics are seen as key factors to ensure continuous production during pandemics, to protect European sovereignty regarding production automation & to reduce the environmental impact of European factories. Thanks to its open-source community, interoperability and easy commissioning, ROS can be considered as a software lever to foster the development of current and future robotics applications.

“ Thanks to EIT we were able to develop tailored Learning Paths to foster ROS solutions for developers.”



MAIN RESULTS & INSIGHTS



- 5 Learning Paths designed to bring concrete tools for developers



- 3 hands-on trainings in Estonia, Spain and Austria



- 36 developers trained by the end of the project



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AIM: Bringing knowledge on ROS solutions to developers across Europe.



<https://artsetmetiers.fr/fr/ros4dev>



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